

# ECOTEL<sup>®</sup> compact VoIP model

## Cost-effective connectivity between IP, ISDN and GSM networks

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communication

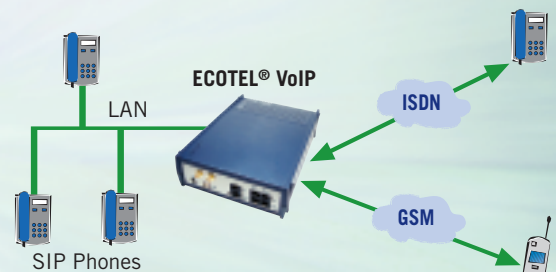
- Cost-effective interconnectivity IP to GSM
- Effective least cost routing with local SIM management
- Connection of mobile sites (office containers, ships, RVs, emergency vehicles)
- Last mile concepts / Wireless local loop (WLL)
- Business continuity

**The VoIP GSM Gateway ECOTEL<sup>®</sup> VoIP** provides cost-effective connections between IP, ISDN and GSM networks. Intelligent local SIM management reduces connection costs by up to 70 percent.

The number of GSM channels is scalable up to a total of eight, and the GSM modules are compatible with all types of GSM networks (GSM 850/900/1800/1900). ECOTEL<sup>®</sup> VoIP offers a built-in antenna splitter

which ensures easy installation with a maximum of two antennas. The gateway can simultaneously route up to eight IP calls to GSM.

Potential applications range from integration into an existing VoIP infrastructure and connection of mobile offices all the way to distributed installations with SIM card server integration and multiple gateways using a common configuration software.



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# ECOTEL® VoIP - The perfect add-on for any SIP-based PBX

Besides its GSM channels (up to eight), ECOTEL® VoIP also offers two S<sub>0</sub> interfaces to the ISDN network.

On the IP end, ECOTEL® VoIP is based on the session initiation protocol (SIP) standard and supports all commonly used codecs. A complete SIP server is integrated into the

gateway. To configure the system a Windows program running on a PC or notebook is used. PC or notebook are connected via LAN or USB. The gateway also allows remote access via GSM. For documentation purposes, ECOTEL® VoIP saves call detail records (CDRs) with all of the important data for each connection.

Features	
Voice signalling	SIP
Codecs	G.711 PCM at 64 kbps G.726 and G.727 E-ADPCM at 16 to 40 kbps G.729/Annex A CS-ACELP at 8 kbps G.723.1 (optional) MP-MLQ/ACELP at 6,3/5,3 kbps
Echo cancellation	G.168-2000; max. echo length 25 ms (15 ms for G.726A)
VAD (Voice Activity Detection)	G.729B für G.729A coders
CNG (Comfort Noise Generator)	G.723.1A für G.723.1 coders
Protocols	TCP, UDP, IP, RTP, RTSP, TELNET, TFTP, HTTP, SMTP
Interfaces	LAN 10/100Base-T, RJ45, USB 1.1B type
Antenna	one or two external antennas, SMA connector, one or two 4-channels-antenna splitter integrated
Administration software	comfortable administrator software, Win98 and above
Administration interfaces	LAN, USB, GSM
GSM channels	2 - 8
Voice messages	downloadable wave files
Speed calling memory	via routing entries
Operational status display	LED
Routing - incoming calls	•
Routing - outgoing calls	•
SIM switching / local SIM management	1 - 8 different SIM cards can register to one GSM module alternately
SIM card server	Integration of external SIM card server
SIP server integration	•
User registration at internal SIP server	•
Routing on external SIP server	up to 8 outbound proxies
Monitoring software	online monitoring, call and SIM statistics
MNP	Mobile Number Portability DB requests
Call Back	•
Remote access	GSM, LAN
Call line identification CLIP	•
Generation of Call Detail Records (CDR)	•
PBX interfaces	2 ports EDSS 1, TE/NT, PtP/PtMP, LAN (RJ45)
PC configuration	USB 1.1 B-type / LAN / GSM
Internet protocols	TCP, FTP, Telnet
Short Message Service (SMS)	•
SIM card locking	•
PC SMS/Data/Fax	LAN, USB
Power supply	100-290 V AC, 50-60 Hz, 15 V DC
Dimension	255 x 185 x 63 mm (L x B x H)
External antenna	FME/SMA

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